

Title (en)  
IMAGE FORMING APPARATUS

Title (de)  
BILDERZEUGUNGSVORRICHTUNG

Title (fr)  
APPAREIL DE FORMATION D'IMAGE

Publication  
**EP 2955584 A1 20151216 (EN)**

Application  
**EP 15171823 A 20150612**

Priority  
• JP 2014122708 A 20140613  
• JP 2015079489 A 20150408

Abstract (en)  
Fluctuations in chargeability in an initial state are expected to be small. If a charging member is new, an image forming apparatus performs a supply operation for supplying a developer or a lubricant prior to an image forming operation in such a manner that the developer or the lubricant adheres to a surface of the charging member.

IPC 8 full level  
**G03G 15/02** (2006.01); **G03G 21/00** (2006.01)

CPC (source: CN EP US)  
**G03G 15/0208** (2013.01 - CN); **G03G 15/0216** (2013.01 - EP US); **G03G 15/0266** (2013.01 - US); **G03G 15/0808** (2013.01 - CN);  
**G03G 21/0064** (2013.01 - EP US); **G03G 21/0094** (2013.01 - EP US); **G03G 21/10** (2013.01 - US)

Citation (applicant)  
JP 2002207353 A 20020726 - CANON KK

Citation (search report)  
• [XDI] JP 2002207353 A 20020726 - CANON KK  
• [XI] US 6226480 B1 20010501 - HIRABAYASHI JUN [JP], et al  
• [A] JP 2013148756 A 20130801 - CANON KK  
• [A] US 5970279 A 19991019 - SAKAIZAWA KATSUHIRO [JP], et al

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2955584 A1 20151216; EP 2955584 B1 20210421**; CN 105182711 A 20151223; CN 105182711 B 20171201; JP 2016014863 A 20160128;  
JP 6624802 B2 20191225; KR 101879912 B1 20180718; KR 20150143351 A 20151223; US 2015362885 A1 20151217;  
US 2016342104 A1 20161124; US 9442454 B2 20160913; US 9727002 B2 20170808

DOCDB simple family (application)  
**EP 15171823 A 20150612**; CN 201510323466 A 20150612; JP 2015079489 A 20150408; KR 20150083253 A 20150612;  
US 201514735873 A 20150610; US 201615226635 A 20160802